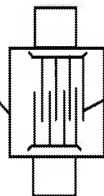


CONDUCTING ORGANIC  
MATERIAL, CONDUCTING  
MATERIAL



INTERDIGITATED  
ELECTRODE  
ARRAY

FIG. 1A-1

ELEMENT, CONDUCTING ORGANIC  
MATERIAL, CONDUCTING MATERIAL

1. polyaniline, carbon black
2. polyaniline, Ag
3. polyaniline, Au
4. polyaniline, Pt
5. polyaniline, ES, carbon black
6. polyaniline, ES, Ag
7. polyaniline, ES, Au
8. polyaniline, ES, Pt
9. polypyrrole, carbon black
10. polypyrrole, Au
11. polypyrrole, Ag
12. polythiophene, carbon black
13. polythiophene, Cu
14. polyEDOT, carbon black
15. polyEDOT, Pt
16. polyEDOT, Ag

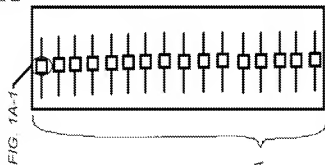


FIG. 1A

SENSOR ARRAY  
RESPONSE  
IDENTIFICATION  
VIA PATTERN  
RECOGNITION

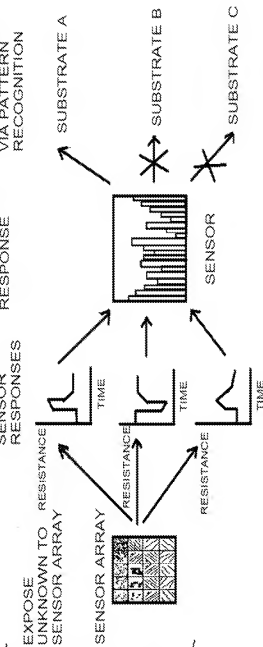


FIG. 1B

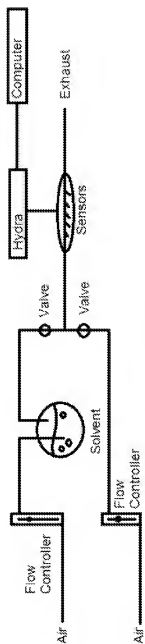


FIG. 1C

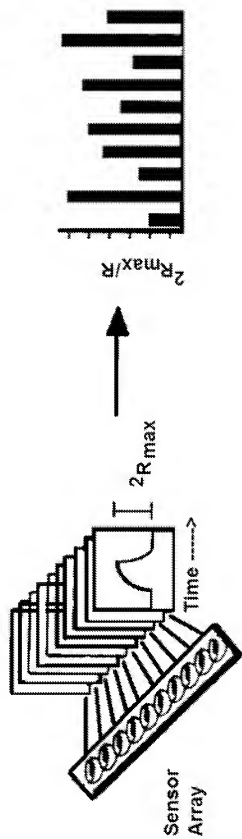
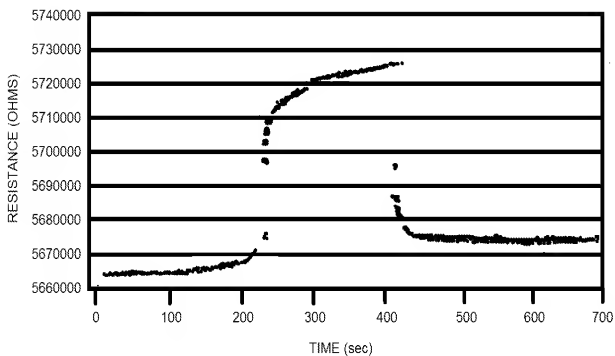
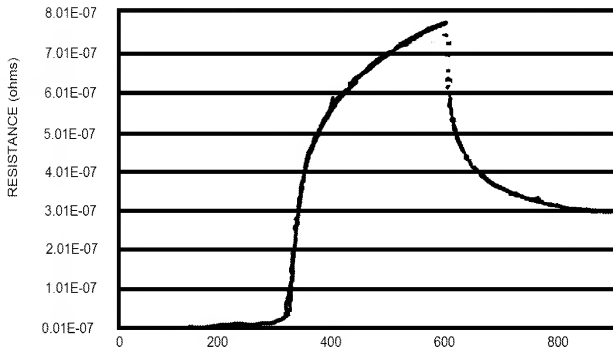


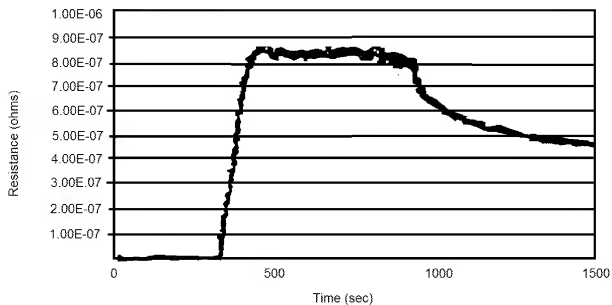
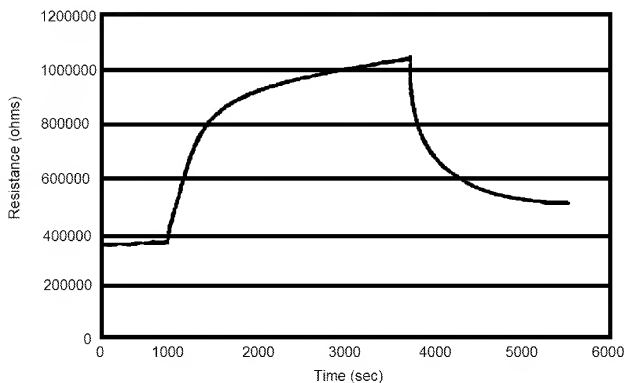
FIG. 2

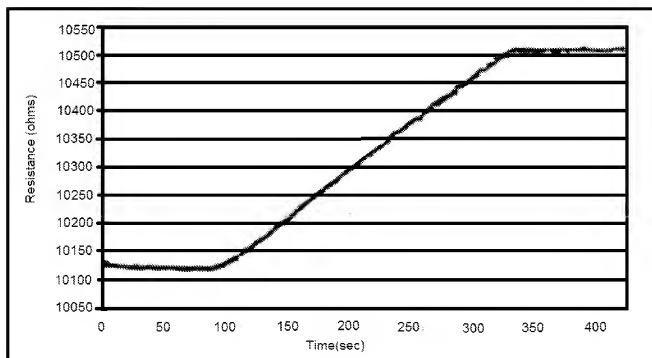


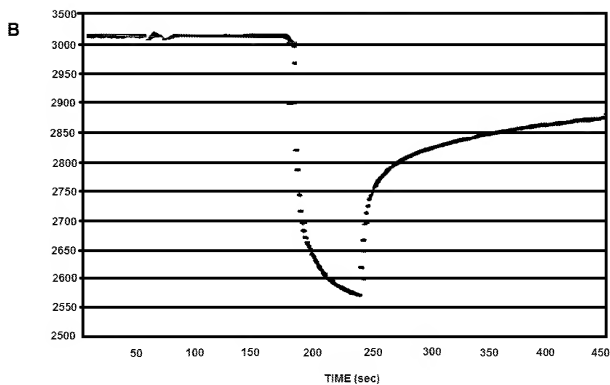
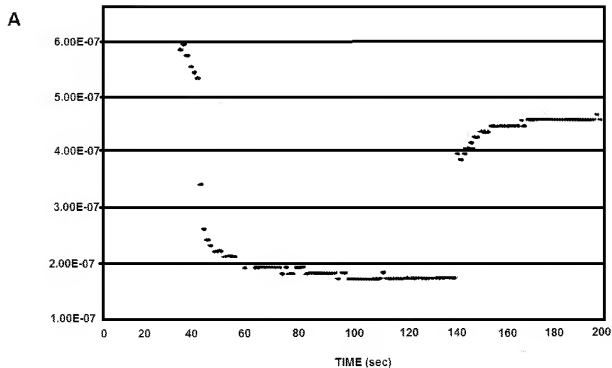
**FIG. 3**

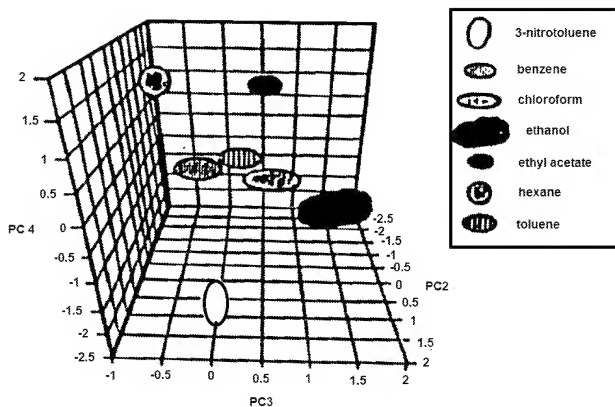


**FIG. 4**

**FIG. 5****FIG. 6**

**FIG. 7**

**FIG. 8**



**FIG. 9**



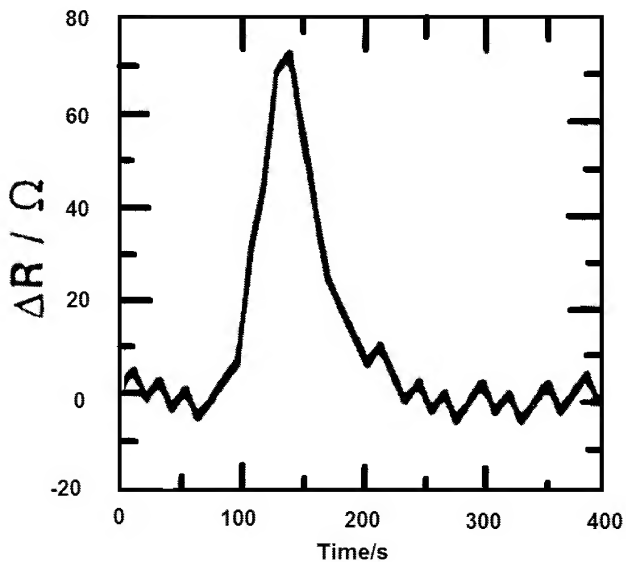
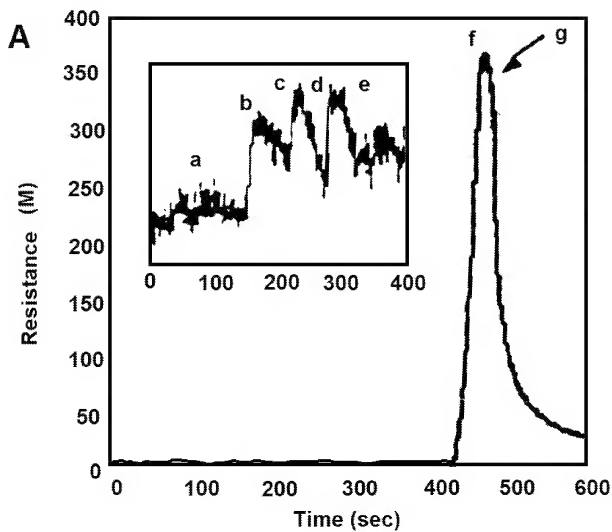


FIG. 10

*FIG. 11A*

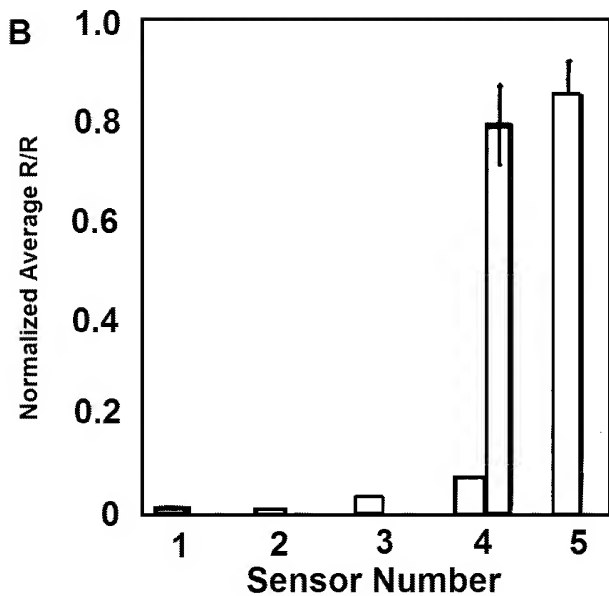
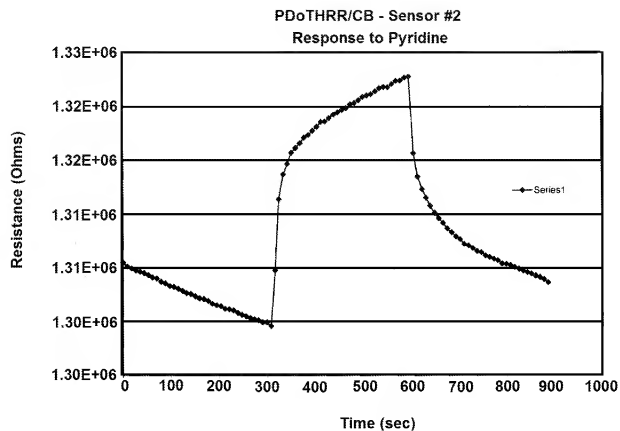
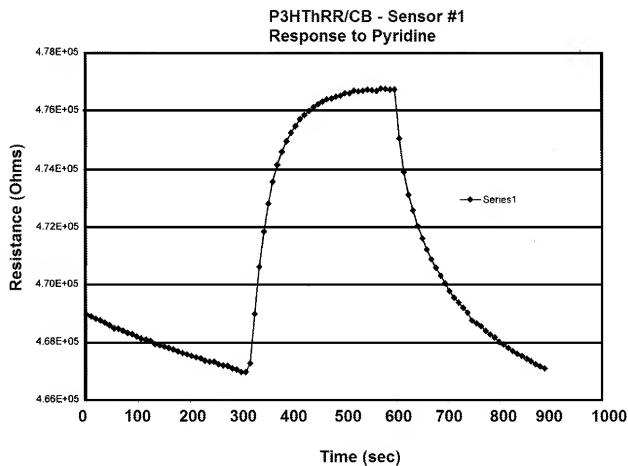
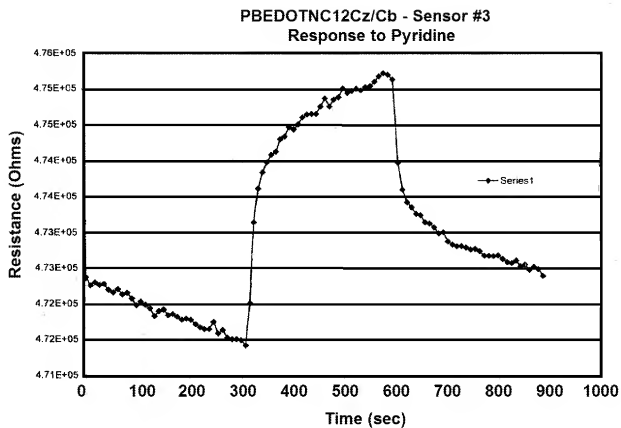
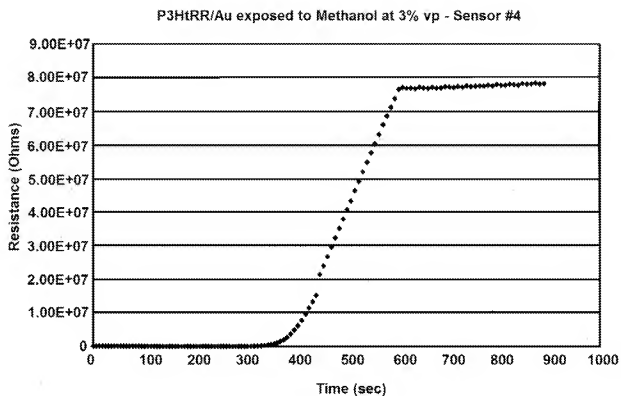


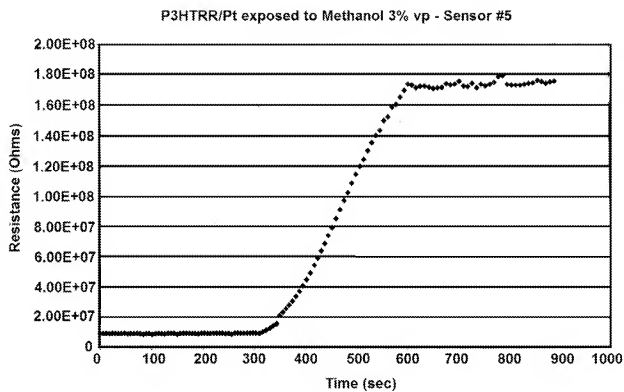
FIG. 11B

**FIG. 12A**

**FIG. 12B**

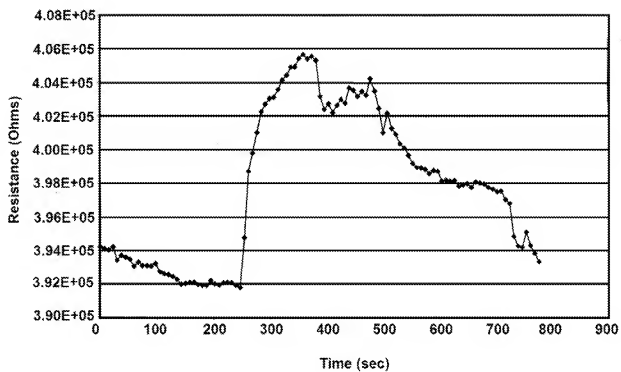
**FIG. 12C**

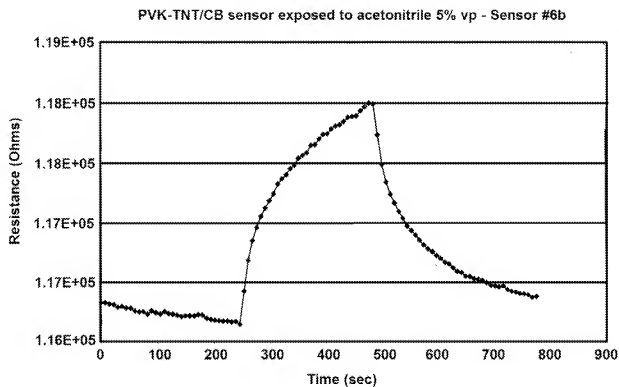
**FIG. 13**

**FIG. 14**



PVK-TCNQ/CB sensor exposed to acetonitrile 5% vp - Sensor #6

**FIG. 15**

**FIG. 16**